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MEMO TO FILE

FROM: CHARLES J. BORUM

SUBJECT: DAYTON ELECTROPLATE'S REDUCTION OF HAZARDOUS
MATERIALS USED IN IT'S OPERATION

In 1984 when Dayton Electroplate was originally formed it acquired the assets including plating operations from the previous company. At that time the operations did not have installed a complete Waste water Treatment System. As soon as possible Dayton Electroplate entered into contracts to purchase and install a complete automatic Waste water Treatment System. This system was designed to handle the results of waste water streams of zinc plating solutions, nickel plating solutions, chrome electroplating solutions and chromates. Also the system was designed to handle all of the cleaning waste including concentrates from these various plating lines. That system was up and running by early 1985 and continues today. It also included emergency holding systems.

In addition Dayton Electroplate's plating lines included a total of 43,905 gallons of cyanide zinc plating solutions. The cyanide concentration and zinc concentration was approximately 4 ounces per gallon of cyanide and between 2 and 3 ounces per gallon of zinc. Also Dayton Electroplate had nickel plating solutions totaling 10,945 gallons and 2,930 gallons of chrome electroplating solutions.

Today, Dayton Electroplate has a total of 9,755 gallons of non cyanide alkaline plating solutions and 15,260 gallons of low cyanide zinc plating solutions. This latter zinc plating solution is at a concentration of approximately 2 ounces per gallon of cyanide and between 1 and 1-1/2 ounces of zinc per gallon.

All nickel and chrome plating solutions have been eliminated so that today Dayton Electroplate's plating operation involves only zinc plating operations.

Also in 1984-1985 Dayton Electroplate used a clear lacquer overcoat on 2 different lines and these lines used a chrome bearing lacquer. First one of the lines was eliminated and then the other was converted to a non-chrome water based lacquer.

As can be seen by the above Dayton Electroplate has made great strides in reducing it's hazardous material utilization in it's operation. No new hazardous materials have been added to the operation. All of this was at a substantial increase in cost including the Company's cost to adjust to a different market it now serves.